

Abstract of the Invention

A processor has a door system for opening and closing a process chamber. The door system includes a closure plate on an actuator supported by a mounting plate. The actuator moves the closure plate into engagement with an open front end of the chamber, to seal the chamber. Lift actuators raise and lower the mounting plate carrying the closure plate between a loading position and a chamber engagement position. The mounting plate has a center section supporting the closure plate actuator, and narrower legs extending from the center section to the lift actuators. A separate door cover is attached to the mounting plate. Visual inspection of the alignment of the closure plate and chamber is improved, better facilitating manufacture and maintenance of the processor. The lift actuators preferably have a piston within a cylinder magnetically coupled to the mounting plate, to reduce or eliminate leakage from the cylinders.